

## Sodium Oxamate Biochemical

Sodium Oxamate

CATALOG #  
**AAA201960**

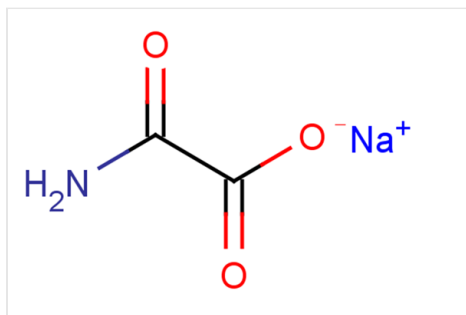
### PRODUCT SYNONYMS

Sodium Oxamate; SO; oxamate sodium; Aminooxoacetic acid sodium salt; Oxamic acid sodium salt; Sodium Oxamate biochemical

### PRODUCT SPECIFICATIONS

|                         |                                                |
|-------------------------|------------------------------------------------|
| Purity/Purification     | 98% (HPLC)                                     |
| Receptor                | LDH CDK Apoptosis                              |
| SMILES                  | [Na+].NC(=O)C([O-])=O                          |
| Pathway                 | Apoptosis                                      |
| Molecular Formula       | C2H2NNaO3                                      |
| CAS Number              | 565-73-1                                       |
| Preparation and Storage | Store at -20 degree C<br>Stability: >= 2 years |

### IMAGES



Chemical Structure

### ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for Sodium Oxamate biochemical | Sodium Oxamate is an LDH inhibitor. Sodium oxamate (SO) induces G2/M cell cycle arrest via downregulation of the CDK1/cyclin B1 pathway and promotes apoptosis through enhancement of mitochondrial ROS generation. It inhibits L(+)-lactate dehydrogenase and derails the entire gluconeogenic pathway. NETosis and lactate accumulation during LPS induced sepsis in mice was inhibited by sodium oxamate, LDH inhibitor. |
| Product Categories/Family for Sodium Oxamate biochemical   | Apoptosis; Apoptosis                                                                                                                                                                                                                                                                                                                                                                                                        |
| References                                                 | 1. Awasthi D , Nagarkoti S , Sadaf S , et al. Glycolysis dependent lactate formation in neutrophils: A metabolic link between NOX-dependent and independent NETosis[J]. Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease, 2019, 1865(12):165542-.                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                  |        |
|------------------|--------|
| Molecular Weight | 111.03 |
|------------------|--------|

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/sodium-oxamate/201960>